

Work Order ID 57357

April 6, 2010 8:56:29 AM.



Page 1

Item ID: D206-642-541

Accept



Setup Start



Revision ID:

Item Name: Replacement Skidtube

Stop



Start Date: 06/04/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 16/04/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

BT

Date:

10-4-10

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3274

D

IIN-D206-642

Rev M

100

0.00



DC

DOCUMENT CONTROL

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP D206-642-541

CHG003

N/A

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Page 2

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Run Start



Stop



Sequence ID/
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Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

110

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

****VERIFY AND INSPECT THE MATERIAL PRIOR TO USE****

1- Bend FWD end of tube using bend prog D3274 FWD dwg D3274, cut fwd end of tube with saw table setup D3274.

11/24/7

2- remove fwd indexing ridge as per dwg D3274. Prepare for welding

DP 10-4-8

3- weld fwd cap as per dwg D3274 and OSI004.

AR Aluminum Rod Batch: M112507/M113207

BE 10/04/12

4- grind fwd cap weld on top surface only

BE 10/04/12

5- Cut AFT end of tube at 170.9" as per dwg D3274 and deburr end.

6-Drill Aft cap pilot hole using DT8025

7 -Cleco DT8025 in position and install pilot hole drill Jig DT8742A,B,C,D.
Drill 3/16" pilot holes as per Dwg D3274

8 -Remove inner indexing ridge on aft end of skidtube as per Dwg D3274 scribe batch #

9 -Open aft end cap holes to Ø0.208" as per Dwg D3274. Deburr aft end.

AWM 10-04-15

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Page 3

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00				1	-	-	AWM 10-4-15
130 QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00							8/10/04/10
140 QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00							8/10/04/10

Dart Aerospace Ltd

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Page 4

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

150

0.00



Skidtubes

Skidtubes

Memo

0.00

1-Open Ø0.313" and 0.375" crossbolt spacer holes using DT8743 as per Dwg D3274

2-Deburr crossbolt spacer holes as per Dwg D3274 and blow out chips from inside the tube

3-Bond web in place as per Dwg D3274 & QSI 015.

A/R ☐ Sikaflex-291 ☒ M112429 ☐

Sikaflex expire date: ☐ 10/10/30 ☐

Start: ☒ 10/4/10 Time: ☐ 2:00 ☐

Finish: ☒ 10/5/10 Time: ☐ 10:30 ☐

(Adhere for 12 hours)

10/4/10

10/4/10

160



QC

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Quality Control

10/5/10

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Page 5

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

170



Skidtubes

Skidtubes

Skidtubes

Memo

0.00

1-Bend AFT end of tube using bend prog. D3274 AFT as per dwg D3274. Install drop pins in crossbolt spacer holes to maintain web position.

2- DRILL PILOT HOLES FOR WEARPLATES USING D3274-1T2 OPEN HOLES TO .297" . Deburr

3-DRILL TOE PIN HOLE .640" DIA AS PER DWG USING DT8935 FWD END OF TUBE
DEBURR INSIDE OF HOLE AS NECESSARY (DO NOT ENLARGE HOLES)
REMOVE ANY FOREIGN OBJECTS INSIDE OF TUBES

4- Countersink crossbolt spacer holes as per Dwg D3274

5- prepare for welding

180



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

H 3.0'
L 4.6'

MB
10-05-05

DD
10-5-6

BE 10/05/12

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April 6, 2010 8:56:29 AM



Page 6

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190 	Skidtubes	0.00							
Skidtubes	Memo 1-Insert D2649 & D3275-1 crossbolt spacers. Weld as per QSI 004 and Dwg D3274. Remember to back drill each hole before welding the other side. Use aluminum rod A/R <input type="checkbox"/> Aluminum Rod <input checked="" type="checkbox"/> <u>M112507</u> 3-Grind cross bolt welds flush as per Dwg D3274. 4-Counterbore 5/16" x 0.750" deep as per Dwg D3274 and deburr.	0.00							
200 	QC5- Inspect part completeness to step on W/O	0.00							
QC Quality Control	Memo <u>50605113</u>	0.00							

W/O:		WORK ORDER CHANGES					
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April 6, 2010 8:56:29 AM



Page 7

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

210

QC10- Inspect visual per QSI004- ground welds

0.00

510513



QC

Memo

0.00

Quality Control

70

220

Pressure Wash per QSI005 4.3

0.00



HandFinish

Memo

0.00

Hand Finishing

10.05.14 Rebaseline tube as per
QSI 005 section 4.1.2.1.
do not acid etch

① BR 10-5-14.

230

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00



Powdercoat

Memo

0.00

Powder Coating

START TIME: 9:00 AM
OVEN TEMPERATURE: 3209F
FINISH TIME: 9:30 AM

⇒ 10/05/17

① d

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
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Page 8

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
240	QC3- Inspect Part Finish	0.00							
QC	Memo	0.00							
Quality Control									
250	HandFinishing	0.00							
HandFinish	Memo	0.00							
Hand Finishing	1-Install Nut Plate as per Dwg D3274. Apply LPS-3 to Nut Plate and rivets. A/R <input type="checkbox"/> N/A <input type="checkbox"/> LPS-3 <input type="checkbox"/>								
	2-Install inserts as per Dwg D3274. Use a drop of Sikaflex inside insert holes a A/R <input type="checkbox"/> <input type="checkbox"/> Sikaflex-291 <input type="checkbox"/> <u>M42459</u> Sikaflex expire date: <input type="checkbox"/> <u>10/08</u>								
260	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00							
Quality Control	Inspect Nut Plate & Inserts								

① BR 10-5-19

① BR 10-5-19

S10/05/19

②

Dart Aerospace Ltd

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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April 6, 2010 8:56:29 AM



Page 9

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
270		0.00							
	HAND FINISHING RESOURCE #1								
HandFinish	Memo	0.00							
Hand Finishing	1-Install wearpads & gaskets as per Dwg D3274.								
	2-Install ring as per Dwg D3274								
	A/R <input type="checkbox"/> Sikaflex-291 <input type="checkbox"/> 11/24/29 <input type="checkbox"/>								
	Sikaflex expire date: <input type="checkbox"/> 10/08								
	3-Inspect for foreign objects as per QSI 024								
	4-Spray inside of tube on both sides of web with LPS-3								
	A/R LPS-3 Batch: _____								
	5-Install Aft Cap and seal with Sikaflex. Clean excess adhesive.								
	A/R <input type="checkbox"/> Sikaflex-291 <input type="checkbox"/> 11/24/29 <input type="checkbox"/>								
	Sikaflex expire date: <input type="checkbox"/> 10/08								
	PROCYON 104251.								
280	QC5- Inspect part completeness to step on W/O	0.00							
QC	Memo	0.00							
Quality Control									

① BL 10-5-19

8 10/05/20

②

Dart Aerospace Ltd

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April 6, 2010 8:56:29 AM



Page 10

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Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

290

Identify as per dwg & Stock Location: _____

0.00



Packaging

Memo

0.00

Packaging

57874 10-6-16 SP

300

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/06/17

PL 10-6-14
①

W/O:		WORK ORDER CHANGES					
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Picklist Print

April 6, 2010 8:56:34 AM

Page 1

10

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Parent Item Name: Replacement Skidtube

Start Date: 06/04/2010

Required Date: 16/04/2010

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
 IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
 IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Qty: 1.00

Required Qty: 1.00

D2600-1-190

Manufactured No

110

Each

50.0000

1.0000



Extrusion Round 3" 206



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

50

47575

50

D3285-1

Manufactured No

110

Each

164.0000

1.0000



Cap



1 11/4/17

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

164

47635

15

52511

74

52647

75

D3282-041

Manufactured No

150

Each

4.0000

1.0000



Float Web (206L/407)



1 BE 10/04/12

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

4

52696

4

D57539 ① 11/04/27

W/O:		WORK ORDER CHANGES					
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Start Qty: 1.00

Required Qty: 1.00

D2649 Manufactured No 190 Each 85.0000 1.0000



Cross Bolt Spacer



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

55000

85

85

B58545 12 BE 10/05/12

D3275-1 Manufactured No 190 Each 20.0000 12.0000



Crossbolt Spacer



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

53453

20

20

B58179 12 BE 10/05/12

CR3212-4-03 Purchased No 250 Each 219.0000 2.0000



Cherry Rivet



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST311

111359 ✓

112314

219

92

127

2 BR 10-5-12

April 6, 2010 8:56:34 AM

Shop Packet Print

Page 2

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 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Qty: 1.00

Required Qty: 1.00

D3415-041 Manufactured No 250 Each 75.0000 1.0000



Nut Plate



Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST056 75

33842 ✓ 75

CCR264SS3-3 Purchased No 250 Each 726.0000 2.0000



Cherry Rivet



1 BR 10-5-19

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST311 726

111548 4

112314 4

113539 92

113973 ✓ 626

ALS4-1032-130 Purchased No 250 Each 40.0000 78.0000



Insert



2 BR 10-5-19

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST282 114634 40

110511 40

78. BR 10-5-19

April 6, 2010 8:56:34 AM

Shop Packet Print

Page 3

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Page 4

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Parent Item: D206-642-541

Parent Item Name: Replacement Skidtube

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
 IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
 IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Date: 06/04/2010

Required Date: 16/04/2010

Start Qty: 1.00

Required Qty: 1.00

D3536-15 Manufactured No 270 Each 19.0000 1.0000



Gasket

Warehouse Loc Qty Loc Code
Location

Main Warehouse

FP 19
 51600 J. 7
 56055 12

D3536-23 Manufactured No 270 Each 7.0000 1.0000



Gasket

Warehouse Loc Qty Loc Code
Location

Main Warehouse

FP 57529 7
 53468 7

D3536-35 Manufactured No 270 Each 11.0000 1.0000



Gasket

Warehouse Loc Qty Loc Code
Location

Main Warehouse

FP 58637 11
 51628 11

1 BL 10-5-19

1 BL 10-5-19

1 BL 10-5-19

April 6, 2010 8:56:34 AM

Shop Packet Print

Page 4

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

April 6, 2010 8:56:34 AM

Page 5

Work Order ID: 57357



Parent Item: D206-642-541



Parent Item Name: Replacement Skidtube

Start Date: 06/04/2010

Required Date: 16/04/2010

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
 IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
 IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Qty: 1.00

Required Qty: 1.00

D3536-39 Manufactured No 270 Each 11.0000 1.0000



Gasket



Warehouse Loc Qty Loc Code
Location

Main Warehouse

FP 11

48161 1

51637 10

D3535-15 Manufactured No 270 Each 14.0000 1.0000



Wearshoe



Warehouse Loc Qty Loc Code
Location

Main Warehouse

FP 14

53462 4

56053 10

D3535-35 Manufactured No 270 Each 9.0000 1.0000



Wearshoe



Warehouse Loc Qty Loc Code
Location

Main Warehouse

FP 9

51608 9

1 BR 10-5-19

1 BR 10-5-19

1 BR 10-5-19

April 6, 2010 8:56:34 AM

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Page 5

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

April 6, 2010 8:56:34 AM

Page 6

Work Order ID: 57357

Parent Item: D206-642-541

Parent Item Name: Replacement Skidtube

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
 IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
 IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Date: 06/04/2010

Required Date: 16/04/2010

Start Qty: 1.00

Required Qty: 1.00

D3535-39

Manufactured No

270

Each

9.0000

1.0000



Wearshoe

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

51619 ✓

9

9

270

Each

14.0000

1.0000

D3535-23

Manufactured No



Wearshoe

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

53467 ✓

56054 ✓

14

2

12

270

Each

20.0000

1.0000

D3537-3

Manufactured No



Wearpad

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

57512

35697

20

20

1 BR 10-5-19

1 BR 10-5-19

1 BR 10-5-19

April 6, 2010 8:56:34 AM

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Page 6

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

April 6, 2010 8:56:34 AM

Page 7

Work Order ID: 57357



Parent Item: D206-642-541



Parent Item Name: Replacement Skidtube

Start Date: 06/04/2010

Required Date: 16/04/2010

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
 IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
 IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Qty: 1.00

Required Qty: 1.00

D3537-1 Manufactured No 270 Each 51.0000 9.0000



Wearpad



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

57250
55465

51

51

9 BL 10-5-19

AN960C10L

Purchased No

270

Each

0.0000

80.0000



washer

NAS1144C0332R.

114341



80. BL 10-5-19

AN960C416

Purchased No

270

Each

377.0000

1.0000



washer



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST346

100993

377

377

1 BL 10-5-19

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Page 7

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

2010 8:56:34 AM

Work Order ID: 57357

Parent Item: D206-642-541

Parent Item Name: Replacement Skidtube

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
 IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
 IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Date: 06/04/2010

Required Date: 16/04/2010

Start Qty: 1.00

Required Qty: 1.00

D3672-1 Manufactured No 270 Each 1,589.000 2.0000



Phenolic Washer

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST077 1589

47628 89

51674 500

52505 1000

AN3C4A Purchased No 270 Each 1,249.000 80.0000



BOLT

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST350 114523 1249

113226 248

114103 501

114108 500

2 BR 10-5-19

80 BR 10-5-19

W/O:		WORK ORDER CHANGES				
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

0, 2010 8:56:34 AM

Work Order ID: 57357



Parent Item: D206-642-541



Parent Item Name: Replacement Skidtube

Start Date: 06/04/2010

Required Date: 16/04/2010

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
 IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
 IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
 IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Qty: 1.00

Required Qty: 1.00

AN4C5A

Purchased No

270 Each

534.0000 1.0000



BOLT

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST346

534

110552 ✓

34

112243

500

D2646

Manufactured No

270 Each

35.0000 1.0000



Aft Cap

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP6

28

52663 ✓

28

Main Warehouse

fp7

7

52663

7

1 BR 10-5-19

1 BR 10-5-19

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES				
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

April 6, 2010 8:56:34 AM

Page 10

Work Order ID: 57357



Parent Item: D206-642-541



Parent Item Name: Replacement Skidtube

Start Date: 06/04/2010

Required Date: 16/04/2010

Comments: IPP Rev:B 05.09.23 Revised per D206-642 Rev. J KJ/JLM
IPP Rev:C 07-02-23 Added SS Wearplates & Gaskets JLM
IPP Rev:D 07-12-06 replace NAS1515H3L to D3672-1 DD
IPP Rev:E 08-04-17 as per PAR 08-015 DD verified by:EC

Start Qty: 1.00

Required Qty: 1.00

D3413-1

Manufactured No

270

Each

31.0000

1.0000



Ring

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST473

58524

31

51586

8

53446

23

1 PR 10-5-12

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Page 10

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART

RELEASED

07.02.12

DEO ATTACHED

DESIGN CP	DRAWN BY PH	DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED [Signature]	APPROVED [Signature]	DRAWING NO. D3274	REV. D SHEET 1 OF 4
DATE 06.12.19		TITLE SKIDTUBE ASSEMBLY SCALE NTS	
A	04.03.15	NEW ISSUE	
B	04.08.09	MOVE SADDLE HOLE: 42.14 WAS 42.76	
C	05.03.16	ADD -043; NEW INSERTS	
D	06.12.19	NEW INSERTS, SS WEARSHOE + GASKET	

Qty -041	Qty -043	Part Number	Description
X		D3274-041	SKIDTUBE ASSEMBLY
	X	D3274-043	SKIDTUBE ASSEMBLY
1	1	D2600-1-240	EXTRUSION
1	1	D2646	AFT CAP
12	12	D2649	CROSS BOLT SPACER
12	37	D3275-1	CROSS BOLT SPACER
1	1	D3282-041	FLOAT WEB
1	1	D3285-1	CAP
1	1	D3413-1	RING
1	1	D3415-041	NUT PLATE
1	1	D3535-15	WEARSHOE
1	1	D3535-23	WEARSHOE
1	1	D3535-35	WEARSHOE
1	1	D3535-39	WEARSHOE
1	1	D3536-15	GASKET
1	1	D3536-23	GASKET
1	1	D3536-35	GASKET
1	1	D3536-39	GASKET
9	9	D3537-1	WEARPAD
1	1	D3537-3	WEARPAD
78	78	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
80	80	AN3C4A	BOLT
1	1	AN4C5A	BOLT
1	1	AN960C416	WASHER
80	80	AN960C10L	WASHER
2	2	CCR264SS3-3	RIVET
2	2	CR3212-4-03	RIVET
2	2	NAS1515H3L	WASHER

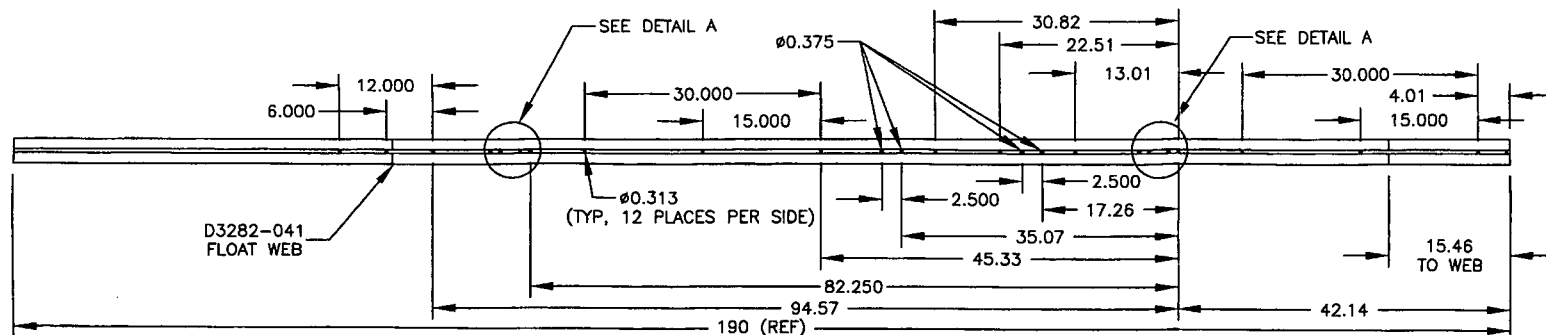
GENERAL NOTES:

1. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
2. DAMAGE TOLERANCE ON FWD BEND:
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 7 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.
3. ALL HOLES DRILLED ON CENTERLINES.
4. BOND D3282-041 FLOAT WEB INTO D3274-1/-3 OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/291 ADHESIVE PER DART QSI 015. ENSURE HOLES LINE-UP.
5. WELDING TO BE DONE PER DART QSI 004.
6. FINISH: - ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1
- POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
7. DRILL Ø0.297 HOLES FOR ALS7-1032-130 INSERTS USING DT3274-1T2 BEFORE FINISH. INSTALL ALS7-1032-130 INSERTS AFTER FINISH. SEAL WEARSHOE BOLTS WITH SIKAFLEX -241/-291.
8. SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

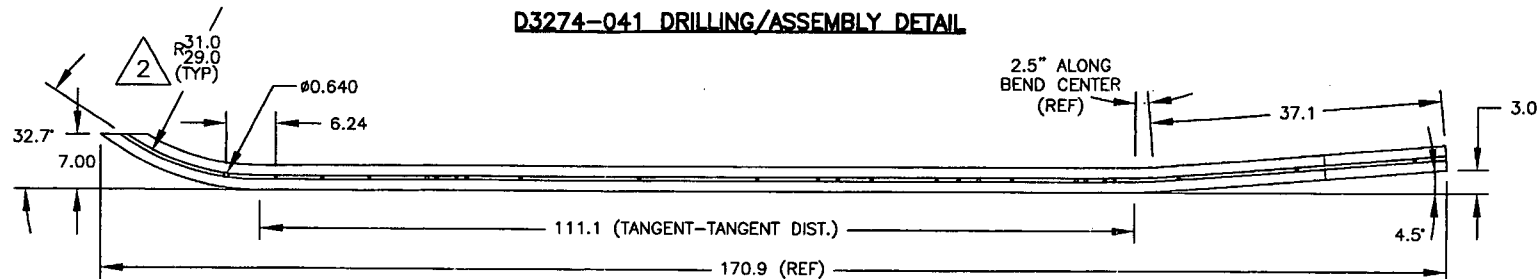
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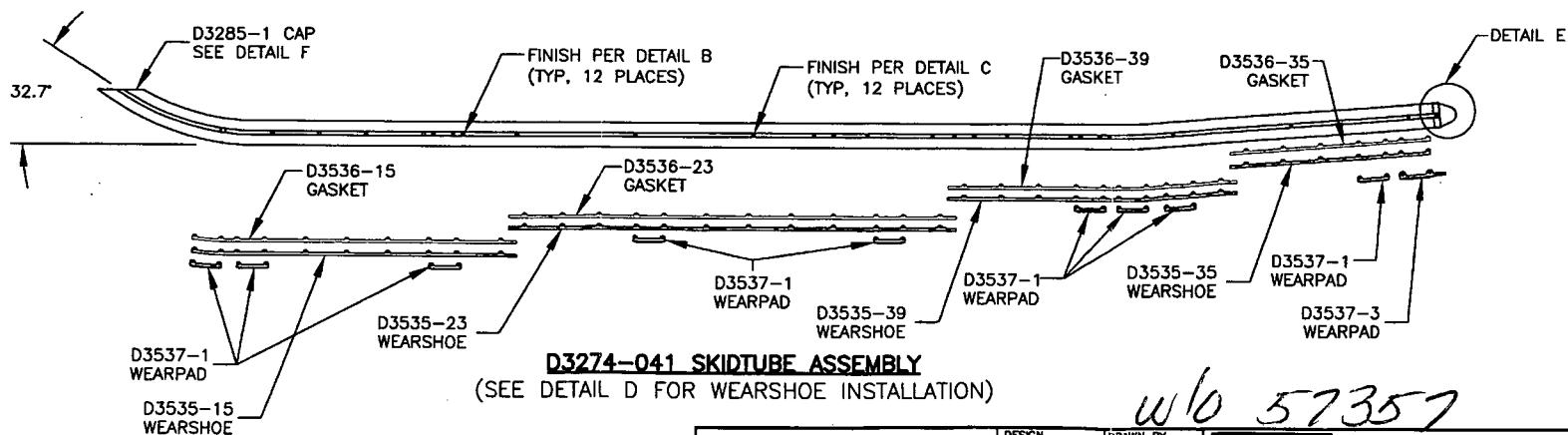
DEO ATTACHED



D3274-041 DRILLING/ASSEMBLY DETAIL



D3274-041 BEND/DRILLING DETAIL



D3274-041 SKIDTUBE ASSEMBLY
(SEE DETAIL D FOR WEARSHOE INSTALLATION)

RELEASED

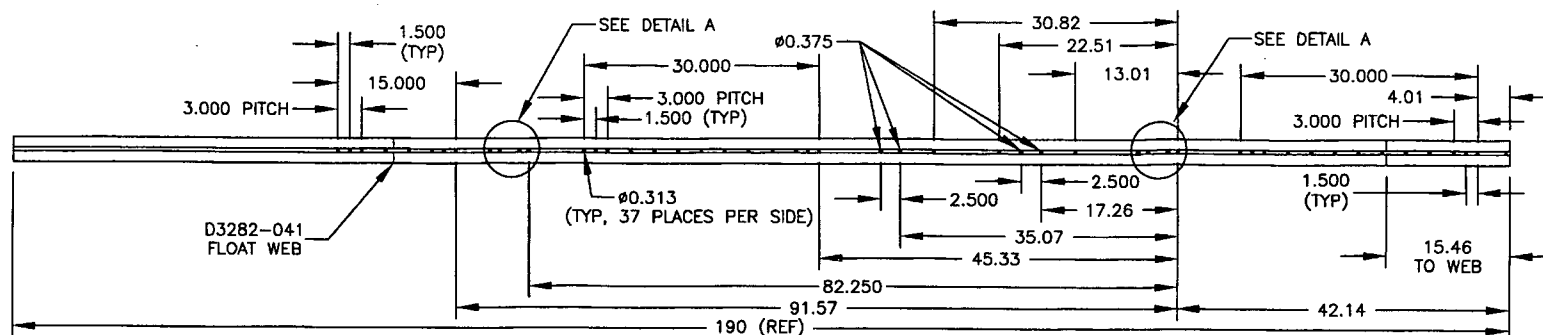
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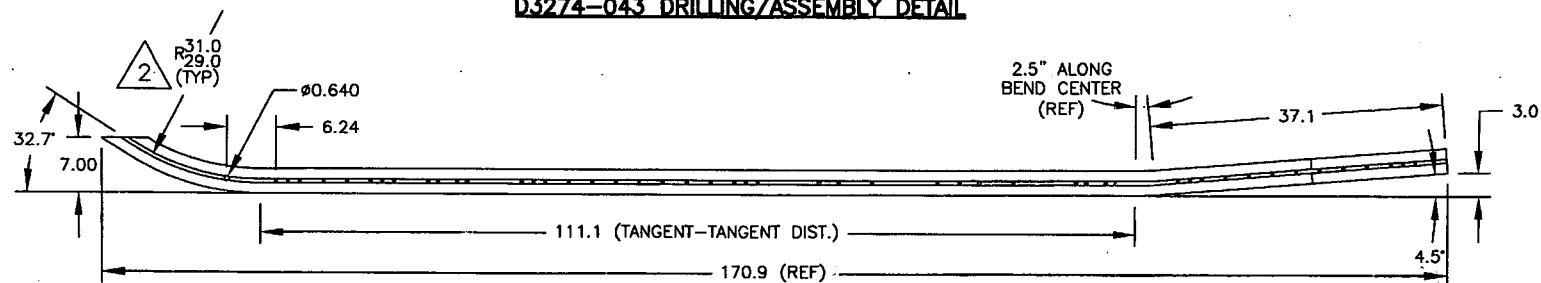
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DESIGN	CP	DRAWN BY	PH	DART DART AEROSPACE USA, INC. PORT HAVEN, MA
CHECKED	#	APPROVED	#	DRAWING NO. D3274
DATE	06.12.19	TITLE	SKIDTUBE ASSEMBLY	REV. D SHEET 2 OF 4 SCALE 1:15

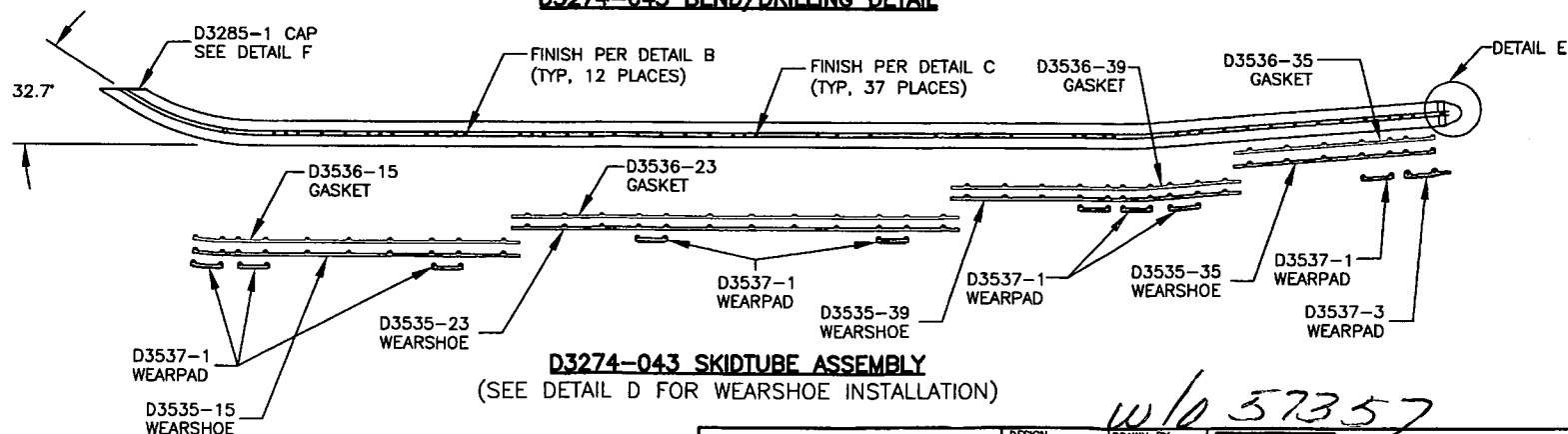
DEO ATTACHED



D3274-043 DRILLING/ASSEMBLY DETAIL



D3274-043 BEND/DRILLING DETAIL



D3274-043 SKIDTUBE ASSEMBLY
(SEE DETAIL D FOR WEARSHOE INSTALLATION)

RELEASED

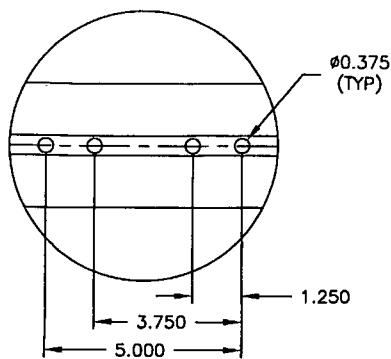
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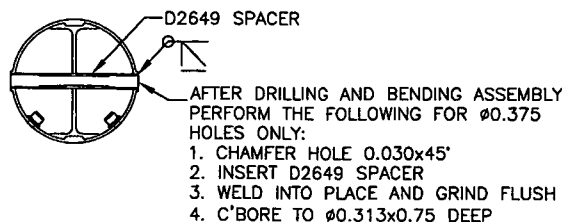
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DESIGN	CP	DRAWN BY	PH	DART DART AEROSPACE USA, INC. PORT HADLOCK, WA
CHECKED	#	APPROVED	#	DRAWING NO. D3274
DATE	06.12.19	TITLE	SKIDTUBE ASSEMBLY	REV. D SHEET 3 OF 4 SCALE 1:15

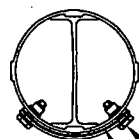
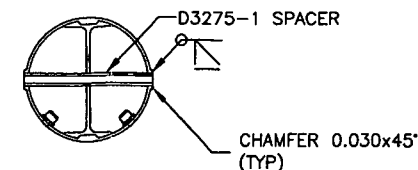
DETAIL A: DRILL DETAIL



DETAIL B FOR 0.375 HOLES ONLY



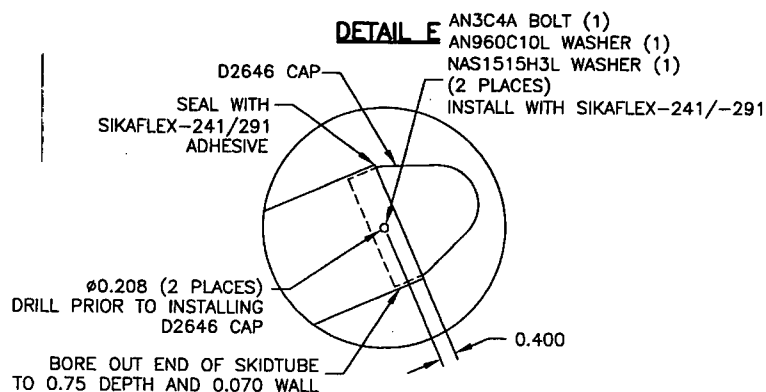
DETAIL C FOR 0.313 HOLES ONLY



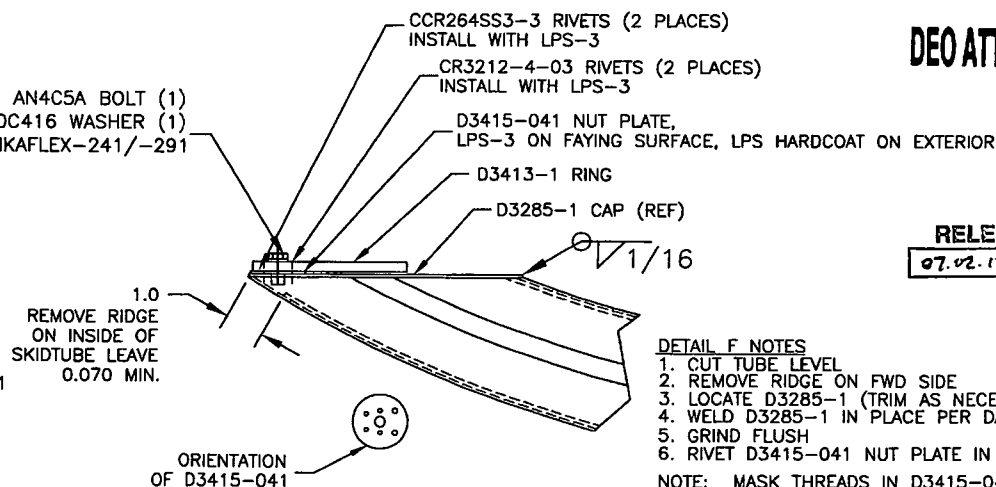
DETAIL D

ALS7-1032-130 INSERT (1)
AN3C4A BOLT (1)
AN960C10L WASHER (1)
(78 PLACES)
GASKET/WEARSHOE/WEARPAD (REF)

DETAIL E



DETAIL F: END FINISHING DETAIL



DETAIL F NOTES
1. CUT TUBE LEVEL
2. REMOVE RIDGE ON FWD SIDE
3. LOCATE D3285-1 (TRIM AS NECESSARY)
4. WELD D3285-1 IN PLACE PER DART QSI 004
5. GRIND FLUSH
6. RIVET D3415-041 NUT PLATE IN PLACE
NOTE: MASK THREADS IN D3415-041 PRIOR TO FINISH

DEO ATTACHED

RELEASED
07.02.12

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DATE		06.12.19	APPROVED	TITLE SKIDTUBE ASSEMBLY	SCALE 1:3

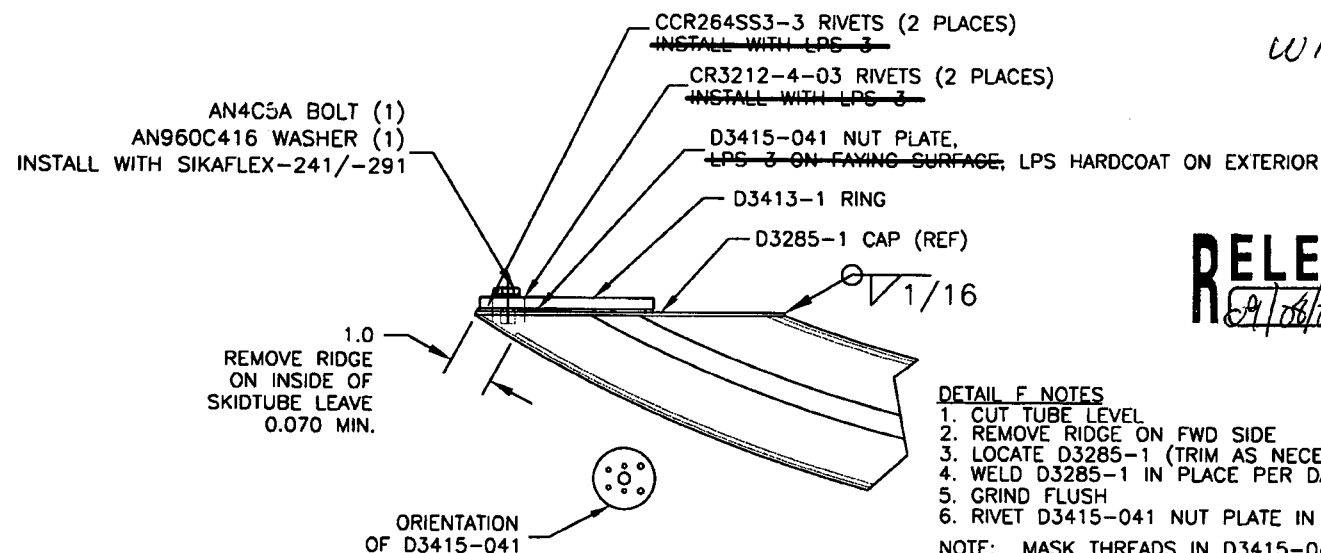
DRAWING NO. D3274	TITLE SKIDTUBE ASSEMBLY	REV. D	DART AEROSPACE USA, INC ENGINEERING ORDER	D.E.O. NO. D3274-D-1	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN <i>UP</i>	CHECKED <i>[Signature]</i>	MFG. APPR. <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DE APPR. <i>[Signature]</i>		
DATE 09.06.17	DATE 09.06.23	DATE 09/06/23	DATE 09/06/23	DATE 09.06.23		

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF SKIDTUBE.

AMEND NOTE 8: "~~SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES 'LPS 3' AFTER FINISH AND INSTALLATION OF INSERTS.~~
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES 'LPS PROCYON' AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER."

AMEND DETAIL F AS SHOWN:

DETAIL F: END FINISHING DETAIL



DETAIL F NOTES

1. CUT TUBE LEVEL
2. REMOVE RIDGE ON FWD SIDE
3. LOCATE D3285-1 (TRIM AS NECESSARY)
4. WELD D3285-1 IN PLACE PER DART QSI 004
5. GRIND FLUSH
6. RIVET D3415-041 NUT PLATE IN PLACE

NOTE: MASK THREADS IN D3415-041
PRIOR TO FINISH

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WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

NO 230

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliott
Job number: 57356
Part number: D206-642-541
Description: flange tube
Welding Process: Tig[☒] Mig[]
Base material: Aluminium
Current: AC[☒] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: pass[☒] fail[]
Penetration: pass[☒] fail[]

UNACCEPTABLE

Cracks: pass[☒] fail[]
Undercut: pass[☒] fail[]
Pin holes: pass[☒] fail[]
Overlap (cold lap): pass[☒] fail[]
Porosity (surface): pass[☒] fail[]
Coloration: pass[☒] fail[]

Qualifier Kat. Nul Date of Test Coupon 10.05.05

Welder Barclay Elliott Date of Test Coupon 10-05-05

The above named individual is qualified in accordance with AWS D17.1.2001 to weld